

ABSTRACT

A weir assembly for use with a mixer-settler for liquid-liquid extraction includes in one embodiment an organic weir having an inlet opening below the free surface of the organic phase liquid and a vertically-adjustable front wall allowing adjustments in the position and/or height of the inlet opening. The organic weir can also feature an angled bottom coupled to a lip segment, an incline plate in the interior of the weir, and a front wall that is angled with respect to incoming fluid flow. In another embodiment the weir assembly can independently or additionally include an aqueous weir with a labyrinth section. The aqueous weir can optionally include an adjustable lip hingedly coupled to the top of the final partition in the labyrinth section.